

FIGURE 1

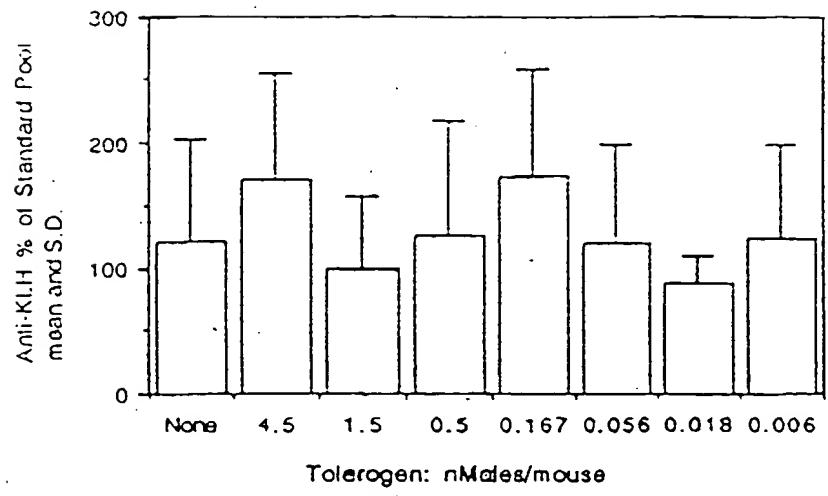
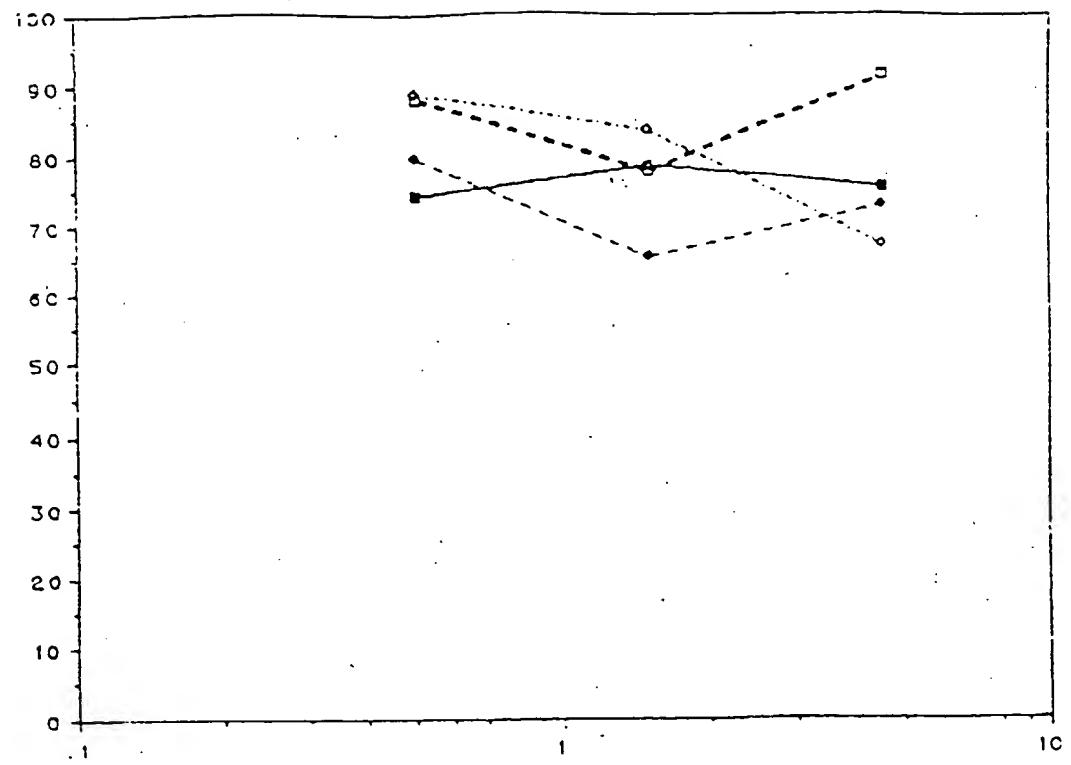


FIGURE 2

Dose  $\times$  Reduct Form of  $\text{L}-\text{P}N$  response



Tolerogen: nMoles/Mouse.     ---♦--- 16 Mer (II-IV)     ---○--- 20 Mer (II-II)  
—■— 24 Mer (II-VI)     -·---♦--- 32 Mer (II-VIII)

FIGURE 3

% Reduction in anti-PN response

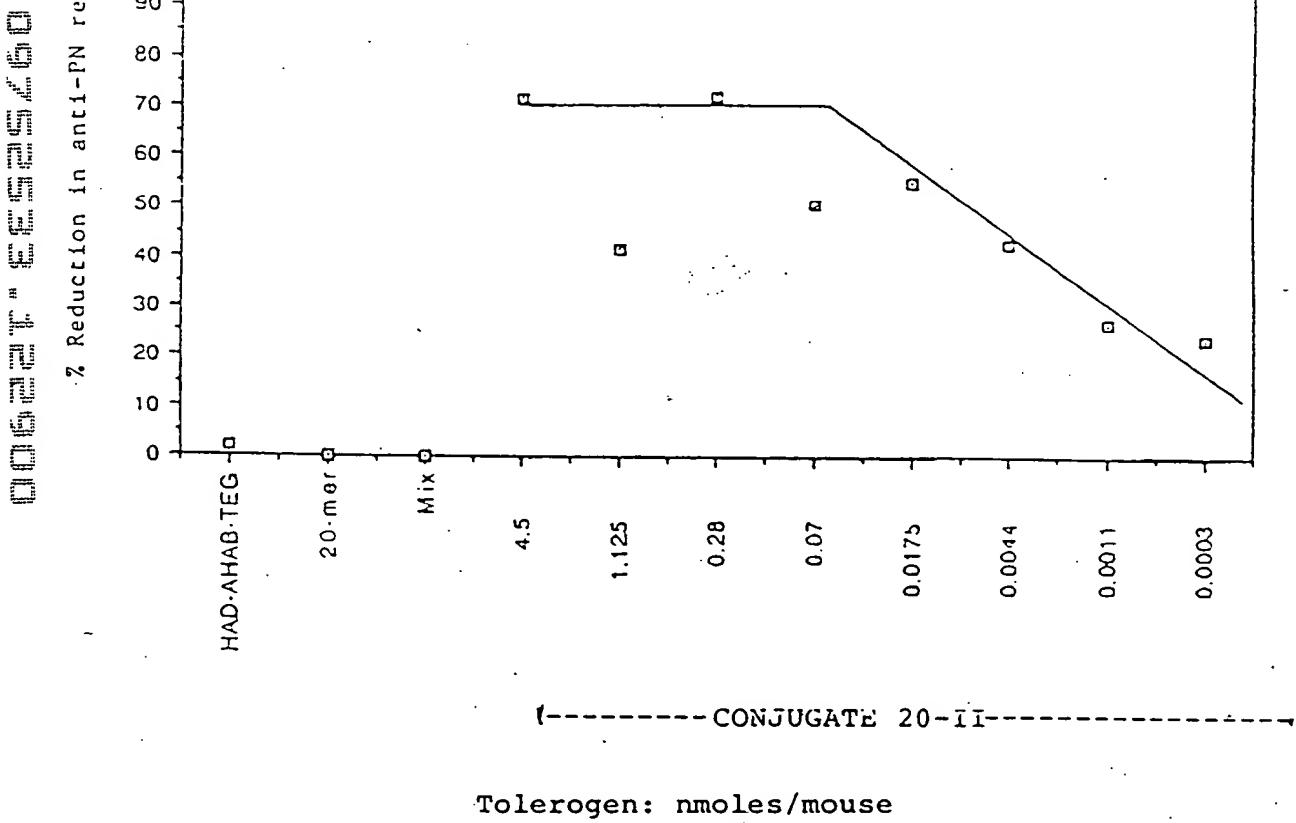


FIGURE 4

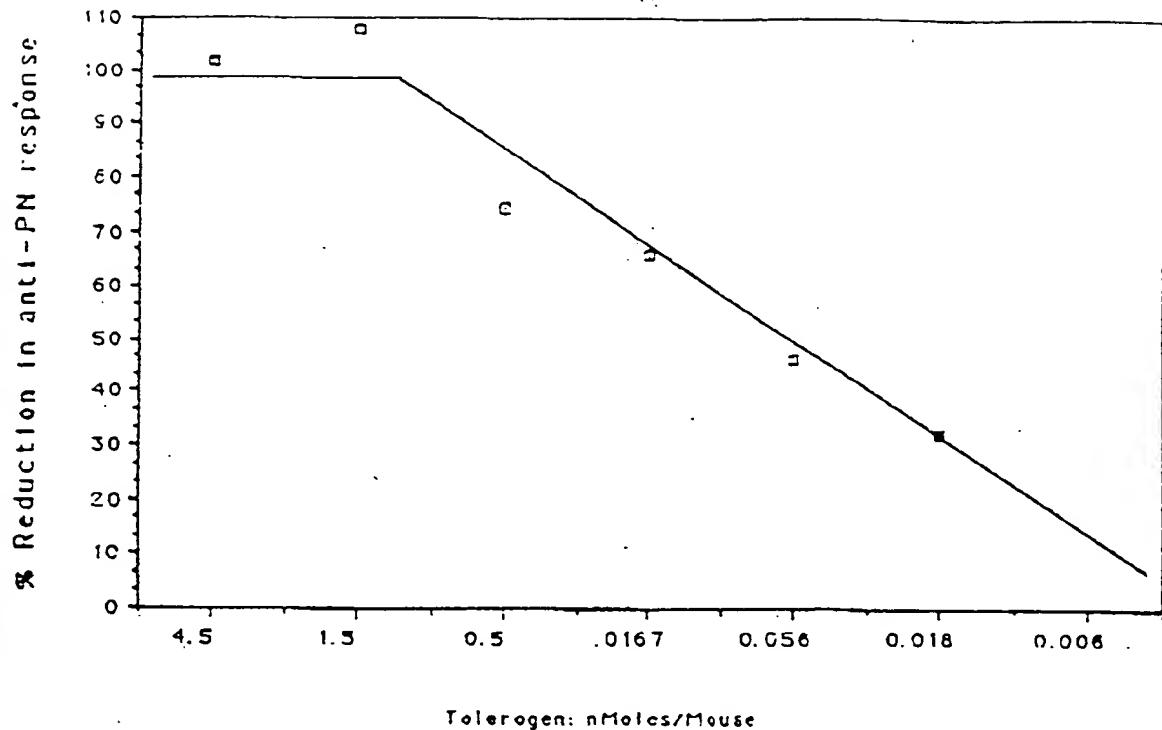


FIGURE 5

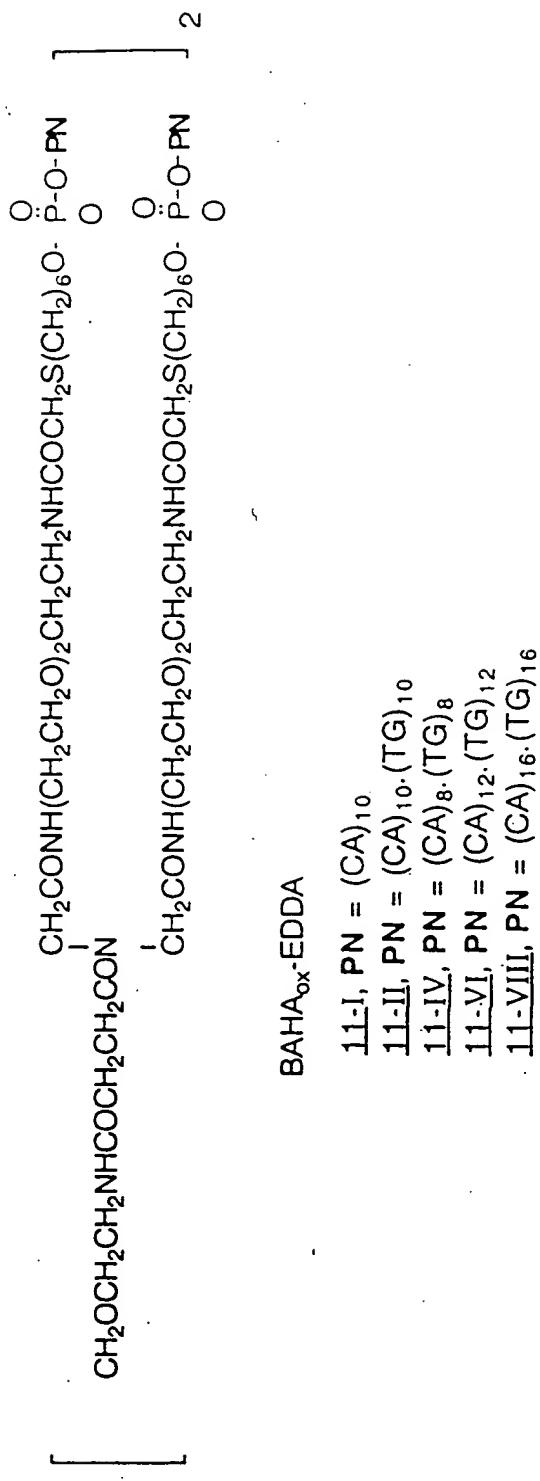
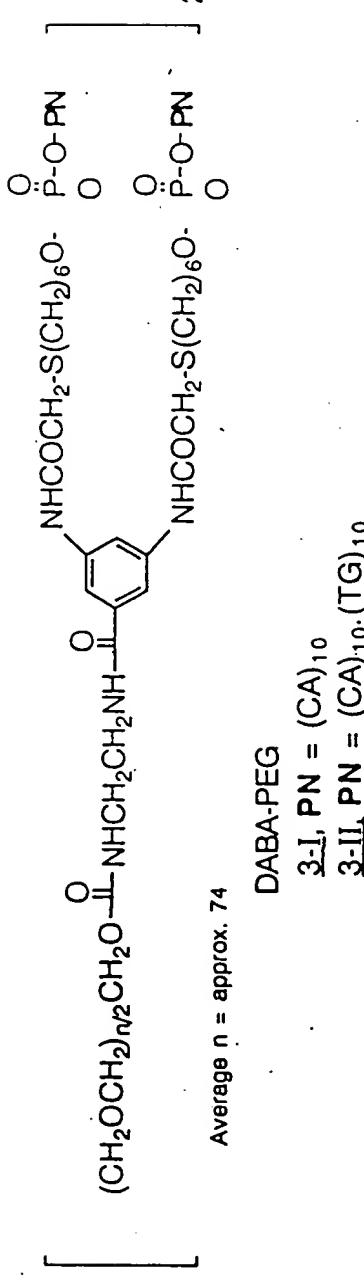


FIGURE 6A

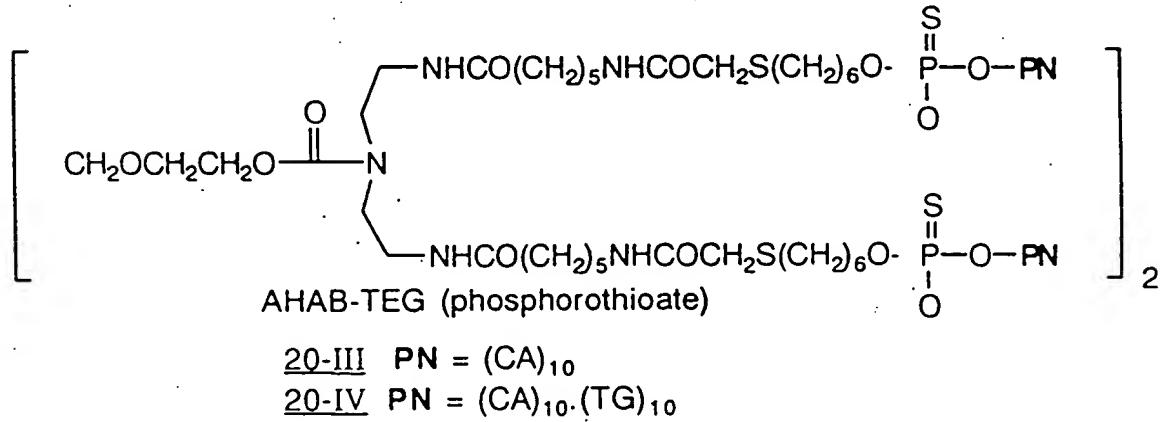
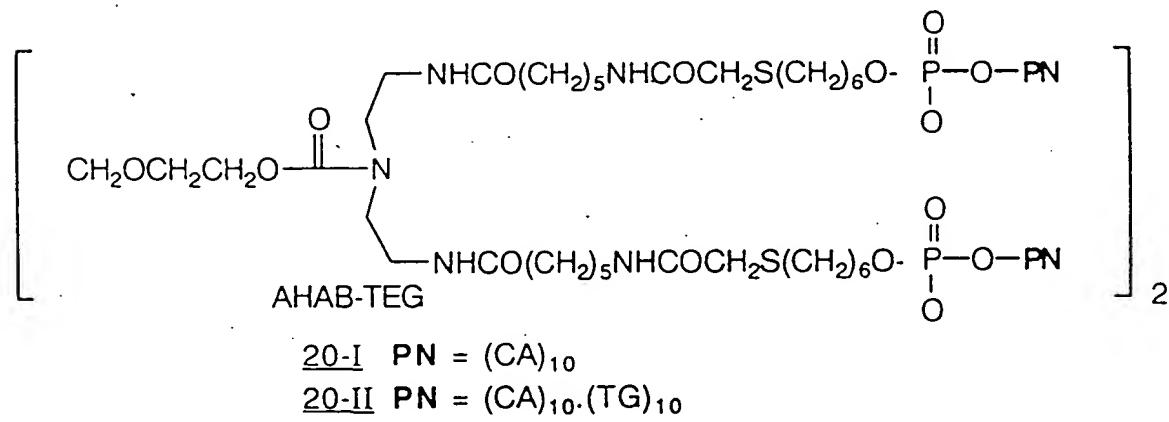
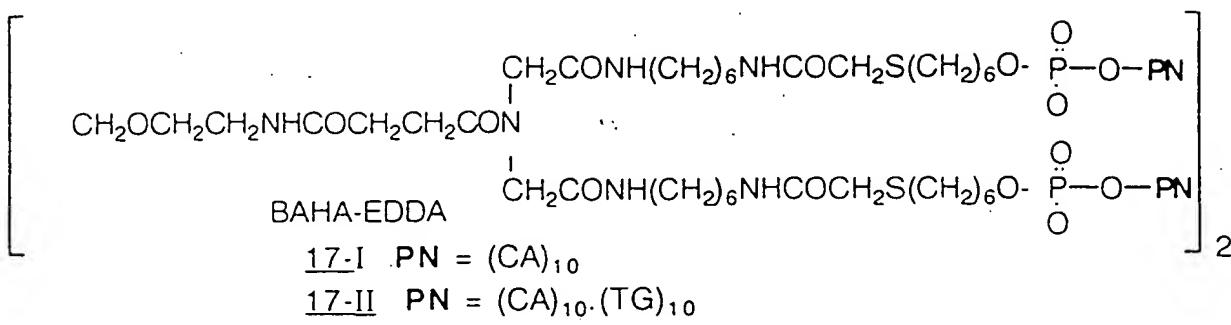


FIGURE 6B

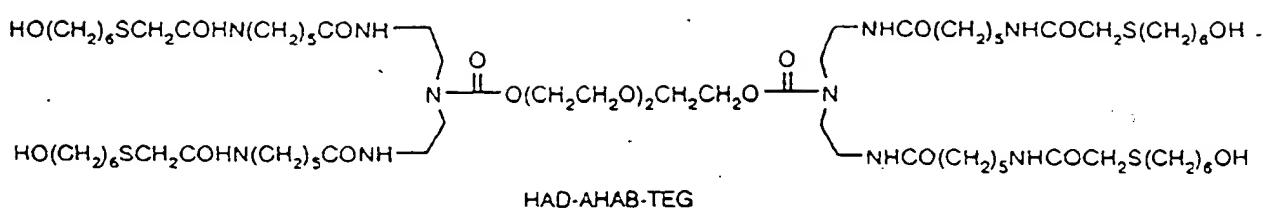


FIGURE 7

### T Cell Proliferation Induced by Mellitin Peptides

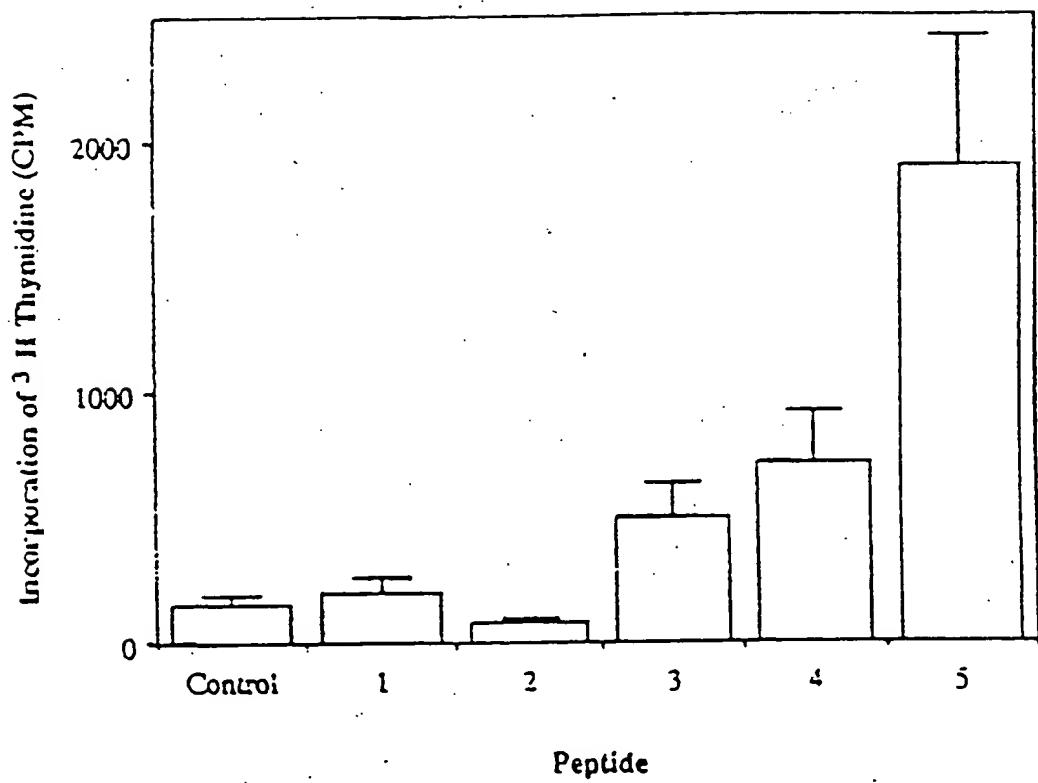
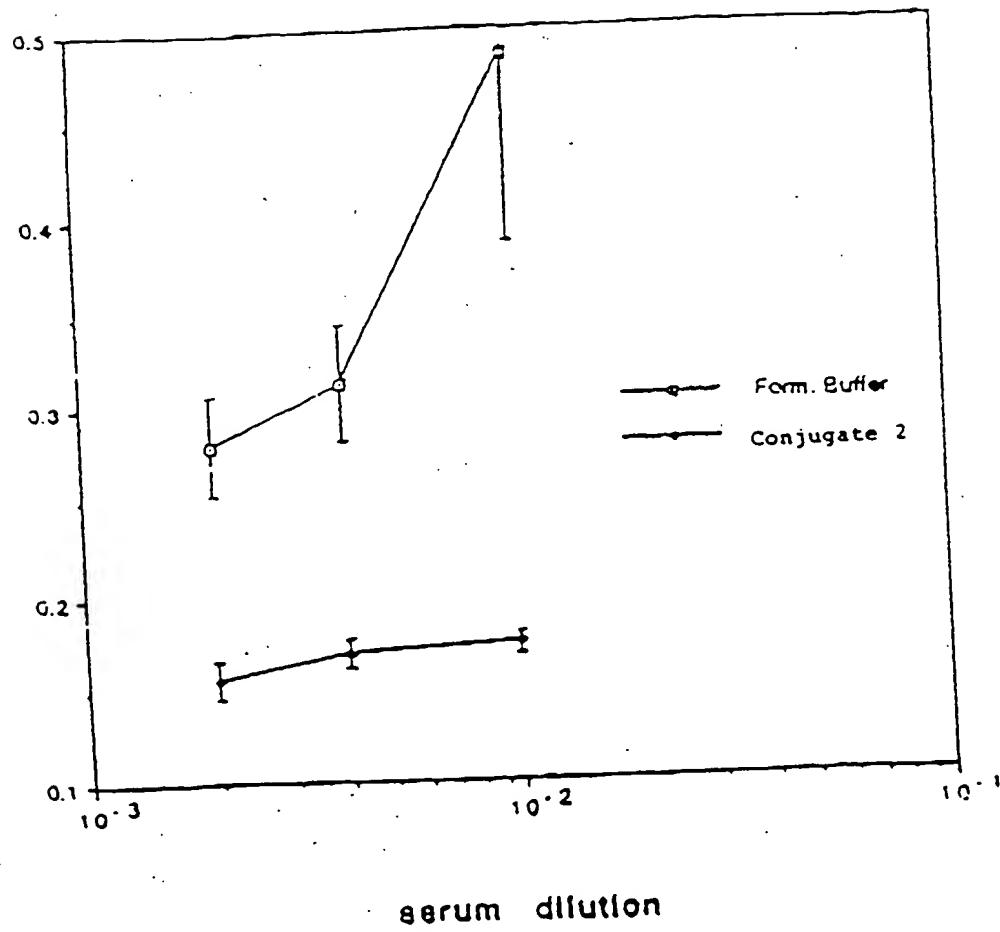


FIGURE 8

O.D. 450 nm

IgG serum circulating Ab to melittin peptide 2



serum dilution

FIGURE 9

IgG serum circulating levels to Melittin

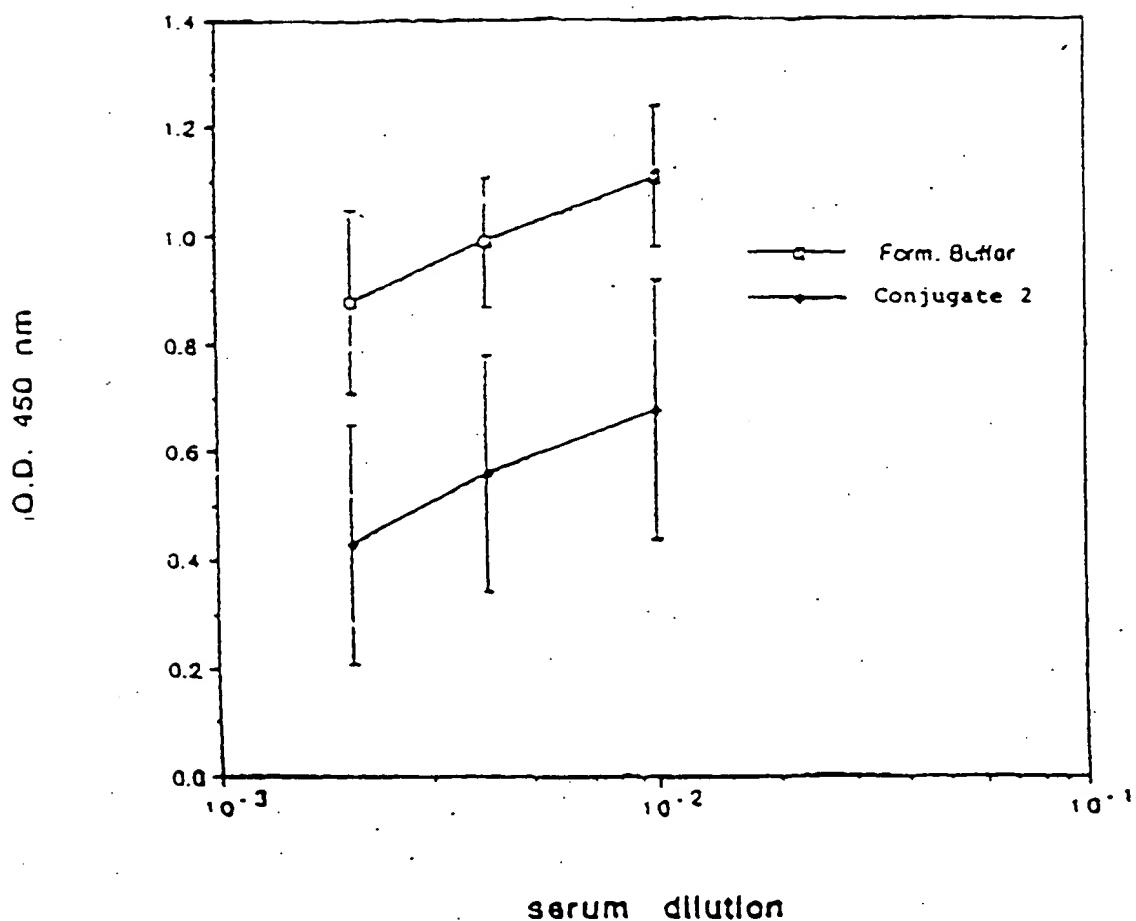


FIGURE 10

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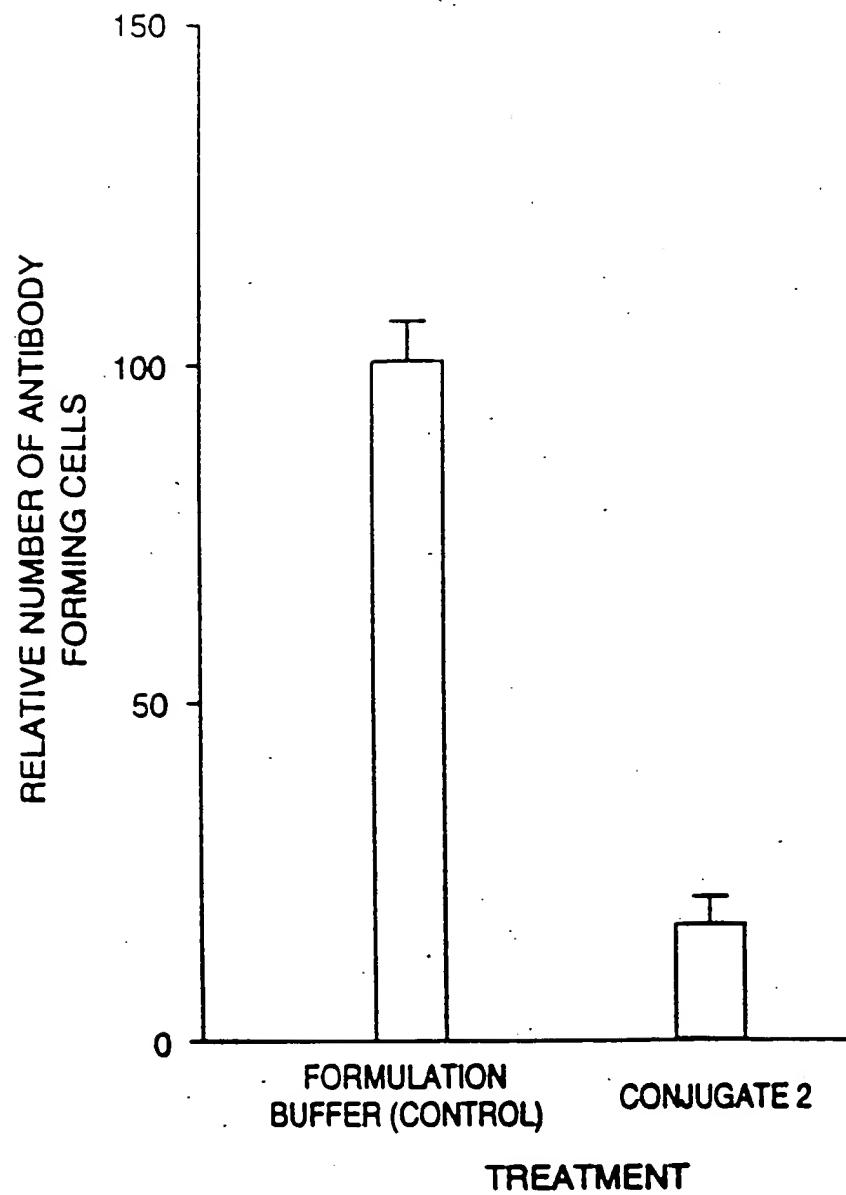


FIGURE 11

IgG serum circulating Ab to Peptide 5

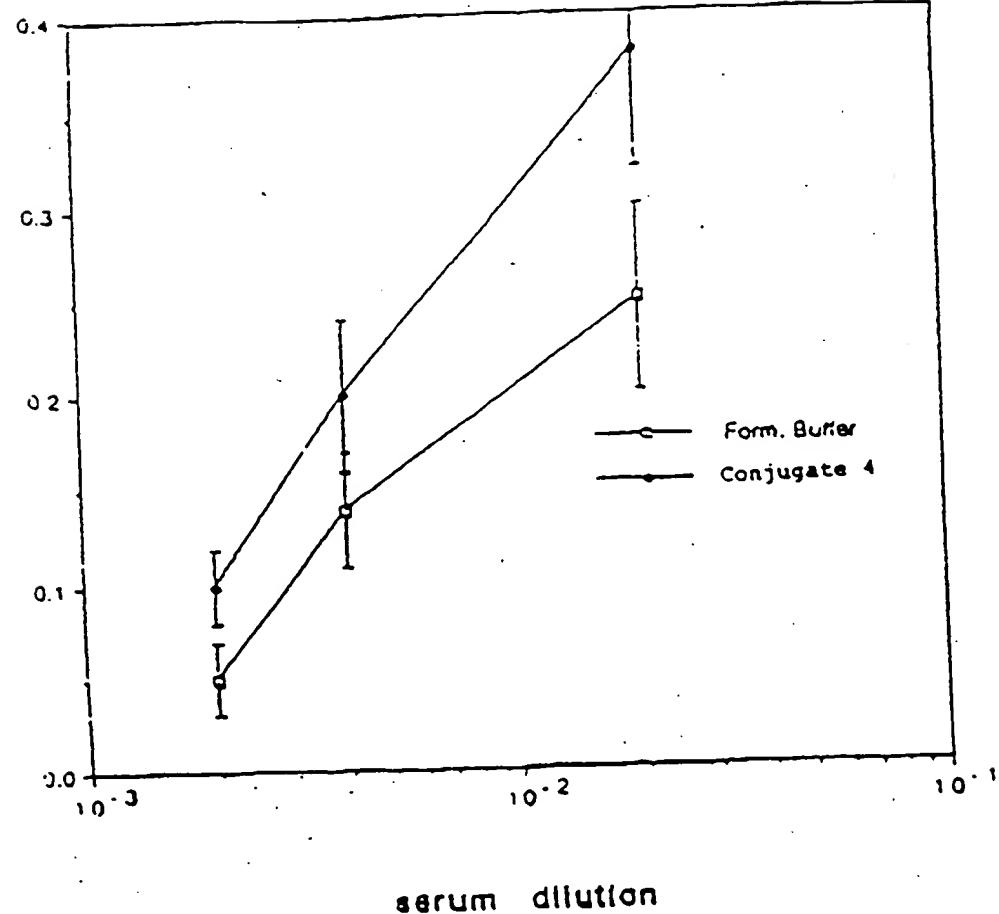


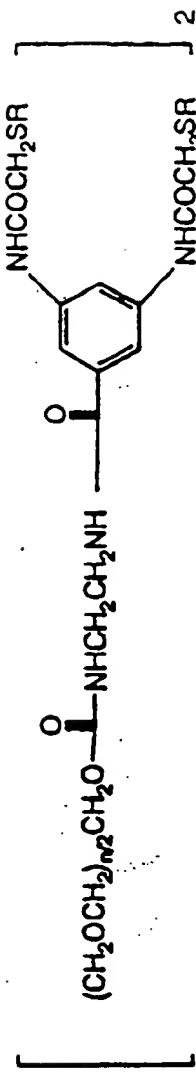
FIGURE 12

## Melittin Peptide Conjugates



Melittin Conjugate # 1, R =  $\text{H}_2\text{N}\text{-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO}_2\text{H}$

Average n = approx. 74



Melittin Conjugate # 2, R =  $\text{H}_2\text{N-Cys-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gly-CO}_2\text{H}$

Melittin Conjugate # 3, R =  $\text{H}_2\text{N-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-CO}_2\text{H}$

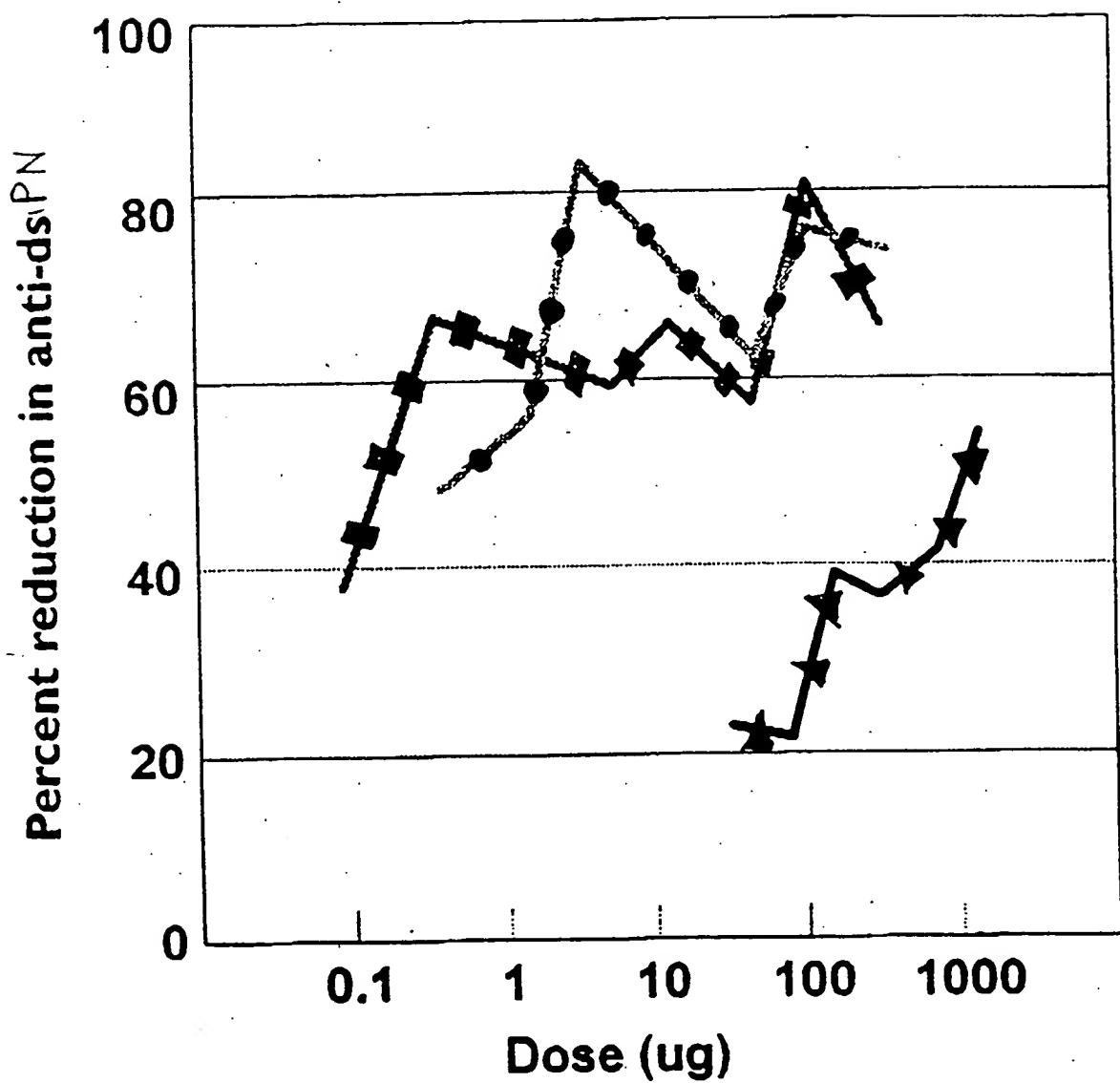
Melittin Conjugate # 4, R =  $\text{H}_2\text{N-Cys-Ile-Ser-Trp-Ile-Lys-Arg-Gln-Gly-CO}_2\text{H}$

Melittin Conjugate # 5, R =  $(\text{H}_2\text{N-Trp-Ile-Lys-Arg-Gln-Gln})_2\text{-Lys-Cys-Gly-CO}_2\text{H}$

Melittin peptides attached through sulfur atom on added cysteine, average n = approx. 74

FIGURE 13

## Inhibition of Anti-ds<sup>PN</sup> by LJP- 249 and LJP- 105



● LJP- 249 A    + LJP- 249 B    ★ LJP- 105

FIGURE 14

## Treatment of Male BXSB Mice with LJP394

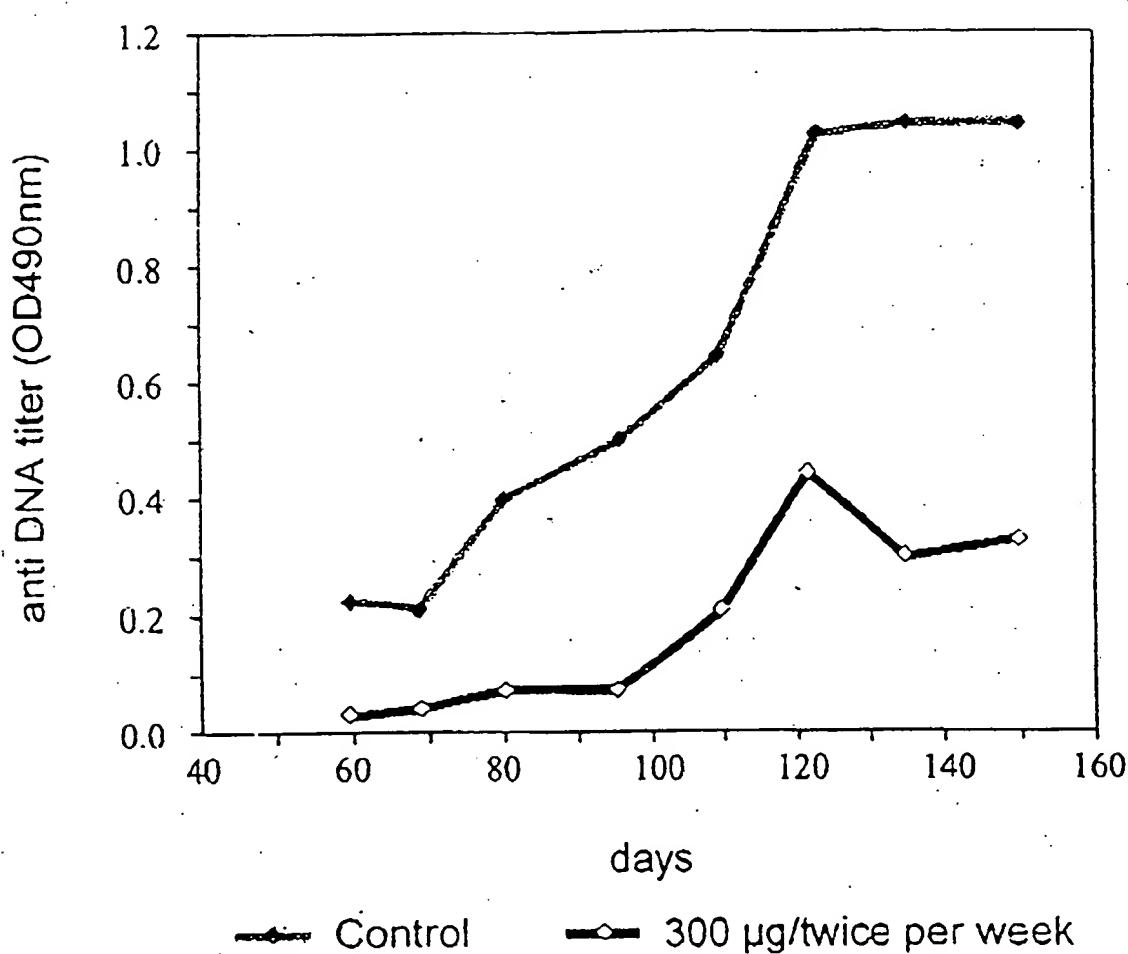


FIGURE 15